



DIABETES IN BERKELEY COUNTY

SC Department of Health and Environmental Control

◆ Diabetes Control Program ◆ Chronic Disease Epidemiology Branch
Diabetes Initiative of South Carolina

Diabetes mellitus, a chronic disease characterized by elevated blood sugar levels, is a significant contributor to morbidity and mortality in South Carolina and throughout the United States. Diabetes can cause debilitating and costly complications such as blindness, renal failure, lower extremity amputations, and cardiovascular disease. Much of the health and economic burden of diabetes can be averted through known prevention measures.

In 1998, 5.7 percent of South Carolina adults, equivalent to approximately 163,000 adults, reported having been diagnosed with diabetes. Diabetes was the sixth leading cause of death in South Carolina claiming 1,029 lives in 1997 and contributing to another 3,014 deaths. This report presents the burden of diabetes in Berkeley county.

Behavioral Risk Factors

Table 1 displays the prevalence of major behavioral risk factors for diabetes and its complications in Berkeley county and SC in 1998.

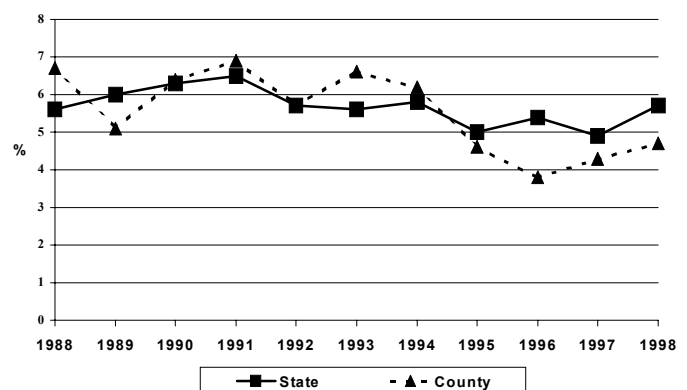
Table 1. Prevalence (%) of
Behavioral Risk Factors for Diabetes

	Berkeley County	SC
Overweight	51.0	52.3
Current Smokers	22.4	24.7
Physical Inactivity	61.9	61.6
Consuming fruits and vegetables less than 5-A-Day	79.7	78.2
High Cholesterol (1997)	27.0	24.4
Hypertension (1997)	25.3	26.7

Prevalence

In 1998, there were approximately 4,423 adults (4.7%) aged 18 and older living in Berkeley county who have been told by a doctor some time in their life that they have diabetes (Figure 1).

Figure 1. Prevalence of Self-Reported
Diabetes among Adults, Berkeley, 1988-1998



Morbidity and Complications

In 1997, there were 200 hospital discharges with diabetes as the primary diagnosis among Berkeley county residents. During the same year, there was an additional 1754 hospital discharges with diabetes-related condition. Compared to whites, African-Americans had a similar number of hospitalizations for diabetes as the primary diagnosis - 101 (50.5%), and fewer hospitalizations for diabetes as a related diagnosis - 660 (37%).

In 1997, hospital charges for hospitalizations of Berkeley county residents having diabetes as primary diagnosis were up to \$1.9 million and \$26.9

million for diabetes as a related condition. The total length of hospital stay for diabetes as the primary diagnosis was 1,103 days.

Berkeley county patients with diabetes who had diabetes-related complications in 1997 included:

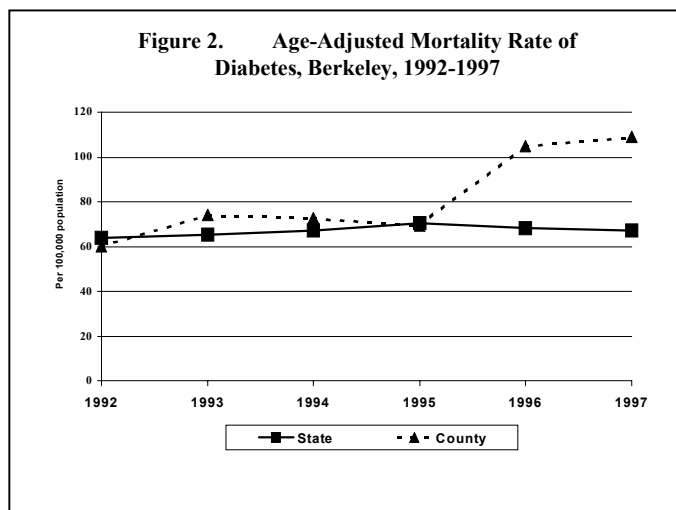
- 253 (13.1%) with renal manifestations;
- 55 (2.8%) with lower extremity amputations related to diabetes;
- 81 (4.2%) with diabetic ketoacidosis;
- 170 (8.8%) with renal failure;
- 137 (7.1%) with dialysis.

Adults with diabetes are at increased risk of developing cardiovascular disease. Out of 1,921 hospitalizations for patients with diabetes, 1,455 (75.9%) had cardiovascular diseases, and 225 (11.7%) had stroke.

In 1997, there were 137 emergency room (ER) visits for diabetes as the primary diagnosis, among which 80 (58%) were for African-American patients. In addition, there were 283 ER visits for diabetes as a related condition. Total ER charges for diabetes as the primary diagnosis was \$105,133.

Mortality

In 1997, diabetes was listed as the underlying cause of death for 61 residents of Berkeley county. This is an age-standardized mortality rate of 67.1 per 100,000 population, higher than the state average of 39.2 per 100,000 population (Figure 2). Diabetes was listed as a contributing cause in 99 deaths in Berkeley county; a standardized mortality rate of 108.9 per 100,000 population.



A total of 752 potential years of life were lost in 1997 because people died prematurely from diabetes. African-American men had the highest standardized mortality (192.3 per 100,000 population) among all race-sex groups.

Berkeley County Resources

Debbie Sprouse, RN, BSN, CDE
DHEC Trident Home Health
Program Coordinator
1941 Savage Road
Charleston, SC 29407
(843) 724-5850

Marti Chitwood, RD, CDE
St. Francis Xavier Home Health
1483 Tobias Gadson Blvd., Suite 208
Charleston, SC 29407
(843) 556-4044

Pamela Arnold, RN, MSN, CDE
Medical University of South Carolina
Diabetes Center of Excellence
171 Ashley Avenue
Charleston, SC 29425
(843) 876-0973

